

**Appendix****Marked Up Version of Amended Claim 43:** (additions underlined, deletions in brackets)

43. [An array of biomolecules comprising a plurality of beads having biomolecules attached thereto, wherein the plurality of beads comprises different bead types, said bead types being distinguishable by said biomolecules and each bead type being associated with a unique chemical or physical characteristic that identifies the biomolecules attached to said bead type, and wherein the beads are arranged in a planar array of non-random configuration and biomolecules attached to said beads are exposed to a continuous liquid phase, said biomolecules capable of forming complexes with corresponding analyte compounds, when said compounds are present in said liquid phase.] A planar array of beads in a non-random spatial configuration, said array comprising a plurality of different bead types, wherein each of said bead types has a different biomolecule attached thereto capable of forming a complex with an analyte, and wherein said bead types are encoded with a chemical or physical characteristic that uniquely identifies the biomolecule of said bead type, and wherein said array of beads is configured such that when said array of beads is contacted with liquid comprising an analyte, the beads of said array are in a continuous liquid phase.

**Marked-Up Version of the Amended Paragraph of Page 10:**

[Figs. 9a and 9b] Figs. 9a to 9c are illustrations of two mechanisms of particle sorting.